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DATE MAILED: 05/26/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,781	10/08/2003	Sergey A. Kostylev	2024.42	6696
7590 05/26/2005			EXAMINER	
Philip H. Schlazer			JACKSON JR, JEROME	
Energy Conversion Devices, Inc.				
2956 Waterview Drive			ART UNIT	PAPER NUMBER
Rochester Hills, MI 48309			2815	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A 1: 4: N -	A 13				
Office Action Summany		Application No.	Applicant(s)				
		10/681,781	KOSTYLEV ET A	KOSTYLEV ET AL.			
	Office Action Summary	Examiner	Art Unit	(000)			
<del></del>		Jerome Jackson Jr.	2815	(8m)			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply							
THE   - External after   - If the   - If NO   - Failure   - Any (	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, n within the statutory minimum ill apply and will expire SIX (6 cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered time i) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 04 M	arch 2005.					
· <u> </u>	This action is FINAL. 2b) This action is non-final.						
3) 🗌	, <del></del>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ 5)⊠ 6)⊠ 7)□	<ul> <li>4)  Claim(s) 1-6,8-12,14-17,19 and 20 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 10 is/are allowed.</li> <li>6)  Claim(s) 1-6,8,9,11,12,14-17,19 and 20 is/are rejected.</li> </ul>						
Applicat	ion Papers		•				
9)□	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>04 March 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	under 35 U.S.C. § 119		•				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	ıt(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  Paper No(s)/Mail Date  Paper No(s)/Mail Date  Other:							

Art Unit: 2815

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-6,8,9,11,12,14-17,19,20 are rejected under 35 U.S.C. 102(e) as being anticipated by Kostylev, "K"

The applied reference has a common assignee and inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

The previous rejection still applies. The new limitation threshold switching material comprising a "chalcogen" element clearly does not structurally distinguish over K because chalcogen is precisely the material of K. Note also that applicant would have to prove that the chalcogen programmable material of K is not or could not be a threshold switching material, as such language is functional. There is no evidence that the chalcogen material of K is not a "threshold switching material". See also In re Swinehart 169 USPQ 226, In re Pearson 181 USPQ 641, and Ex parte Minks 169 USPQ 120 on labels, statements of intended use, and functional material, as we have here in "threshold switching material", all of which make it clear that applicant has the burden to show the applied art cannot function in the manner claimed.

Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The prior art of record does not teach a silicon nitride dielectric layer between a chalcogenide swich and a programmable resistance material.

Applicant's arguments filed 3/4/5 have been fully considered but they are not persuasive. Arguments that the chalcogen material of K is not a "threshold switching material" is unpersuasive as shown above. First, "threshold switching" is functional language and applicant has not shown that K cannot function in this manner. Secondly, the chalcogen material of K is a "threshold switching material" because it is a "phase change material".

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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